

**BULLETIN**  
of the  
**ENTOMOLOGICAL SOCIETY OF AMERICA**

W. P. MURDOCH, *Editor*  
4603 Calvert Road  
College Park, Maryland 20740

**TABLE OF CONTENTS**  
**VOLUME 20**

Number 1	Issued March 15, 1974
Meetings and Conferences 1974-1975 ..... Front Cover	Fifth National Congress of Plant Medicine, Tabriz, Iran ..... 55
Sustaining Associates ..... Front Cover	Reports of Standing Committees for 1973 ..... 56
Deceased Members ..... Front Cover	Members in the News ..... 62
Right Now—A Message from the President, P. L. Adkisson ..... 1	Reports of Editorial and Editorial Board Matters for 1973 ..... 63
Agricultural Entomology Correspondence Course, Washington State University ..... 2	ESA Placement Service ..... 66
Hercules Incorporated Announces 1973 4-H Entomology Awards ..... 2	Positions Wanted ..... 66
50th Annual Meeting, Kansas State Entomological Society ..... 2	Positions Available ..... 67
Pests, Pesticides, and People, G. E. Guyer ..... 3	Proceedings of the 22nd Annual Meeting, Southwestern Branch, ESA ..... 68
XV International Congress of Entomology Report .. 6	Book Reviews ..... 70
Editor's Comments ..... 7	What to do About Bites and Stings of Venomous Animals ..... 70
Managing Editor's Comments ..... 8	Types of Thysanoptera in the Collection of the California Academy of Sciences ..... 70
A Preliminary Bibliography of Insect-Grass Relationships in North America, Exclusive of Corn, Sorghum, Rice, Sugarcane, Oats, Rye, and Barley, R. J. Lavigne ..... 11	History of Entomology ..... 71
The North American Hymenoptera Catalog: A Pioneering Effort in Computerized Publication, K. V. Krombein, J. F. Mello, and J. J. Crockett .. 24	Pest Control in Buildings ..... 73
Deciphering The Communicative Rosetta Stone, M. S. Blum ..... 30	The Oribatid Genera of the World ..... 73
First National Entomological Congress, South Africa Minutes—1973 Meeting, Entomological Society of America ..... 36	International Commission on Zoological Nomenclature ..... 74
Opening Session ..... 36	Golden Jubilee of the Entomological Society of Queensland, B. J. Stone ..... 75
Preliminary Business Meeting ..... 36	VII Annual Meeting, Invertebrate Pathology Society ..... 75
Final Business Meeting ..... 38	Pest Management Workshop ..... 75
Governing Board 1974 ..... 42	Master of Arts in Museum Science ..... 75
Officers, Entomological Society of America ..... 43	ARPE Hires New Manager ..... 76
Branch Officers ..... 43	ESA Publication on the Preparation of Chemicals for Evaluation ..... 76
Editorial Boards ..... 43	Perspectives in Aphid Biology, 1973 Edition, Available from New Zealand Entomological Society .. 76
Section Officers ..... 43	Communique of the Soviet-American Conference on Integrated Pest Management ..... 76
Sub-Section Officers ..... 44	Nominations to Honorary Membership, ESA ..... 77
Standing Committees ..... 44	Kit for Medical Entomology ..... 77
Report of the Auditors for 1973 ..... 45	Proposed Educational Program at Minneapolis Meeting ..... 78
Reports of Representatives to Scientific Bodies for 1973 ..... 48	First International Congress of Ecology Meeting ... 78
Acarology Summer Program—1974 ..... 48	Odds and Ends ..... 78
Reports of Special Committees for 1973 ..... 50	Paper for Presentation, Tear Sheet, Due July 1 .... 79
	17th National Insect Photographic Salon, Tear Sheet 81
	ESA Service Volunteers, Tear Sheet ..... 83
 Number 2	 Issued June 17, 1974
Future Meetings ..... Front Cover	Challenge to Entomologists, J. B. Kring ..... 107
XV International Congress ..... Front Cover	Symposium Proceedings (IOBC) ..... 108
Where To Find It ..... Front Cover	Correction ..... 108
A Small Step Forward—Message from the President, P. L. Adkisson ..... 85	Rocky Mountain Conference of Entomologists ..... 108
Editor's Comments ..... 87	Lepidopterists' Society Meeting ..... 108
Lady Glanville's Legacy, R. L. Doutt ..... 89	John Henry Comstock Centennial Celebration ..... 108
Evaluation of ESA—BYU Introductory Entomology Instructional Kit, G. L. Jubb, Jr. .... 92	Graduate Study—The Time of Your Life, E. H. Smith ..... 109
ESA Sponsors Symposium ..... 92	Workshop on Pest and Disease Appraisal and Control by Management Systems ..... 112
A Bibliography of North American Cherry Fruit Flies (Diptera: Tephritidae), M. T. AliNiazee and R. D. Brown ..... 93	Program Highlights—Minneapolis Meeting ..... 114
Guidelines for Use of Insecticide Order Form ..... 101	Publication Policies and Instructions for Contributors, ESA ..... 115
Scope of Society Sections ..... 102	Members in the News ..... 118
Federal Environmental Pesticide Control Act of 1972—What Does it Mean to the Chemical Industry? R. C. Hunter ..... 103	Leonard P. Quattrochi Memorial Fund ..... 118
	Membership List, ESA ..... 119
	Proceedings of the 48th Annual Meeting, Southeastern Branch, ESA ..... 199

**BULLETIN**  
of the  
**ENTOMOLOGICAL SOCIETY OF AMERICA**

W. P. MURDOCH, *Editor*  
4603 Calvert Road  
College Park, Maryland 20740

**TABLE OF CONTENTS**  
**VOLUME 20**

Number 1	Issued March 15, 1974
Meetings and Conferences 1974-1975 ..... Front Cover	Fifth National Congress of Plant Medicine, Tabriz, Iran ..... 55
Sustaining Associates ..... Front Cover	Reports of Standing Committees for 1973 ..... 56
Deceased Members ..... Front Cover	Members in the News ..... 62
Right Now—A Message from the President, P. L. Adkisson ..... 1	Reports of Editorial and Editorial Board Matters for 1973 ..... 63
Agricultural Entomology Correspondence Course, Washington State University ..... 2	ESA Placement Service ..... 66
Hercules Incorporated Announces 1973 4-H Entomology Awards ..... 2	Positions Wanted ..... 66
50th Annual Meeting, Kansas State Entomological Society ..... 2	Positions Available ..... 67
Pests, Pesticides, and People, G. E. Guyer ..... 3	Proceedings of the 22nd Annual Meeting, Southwestern Branch, ESA ..... 68
XV International Congress of Entomology Report .. 6	Book Reviews ..... 70
Editor's Comments ..... 7	What to do About Bites and Stings of Venomous Animals ..... 70
Managing Editor's Comments ..... 8	Types of Thysanoptera in the Collection of the California Academy of Sciences ..... 70
A Preliminary Bibliography of Insect-Grass Relationships in North America, Exclusive of Corn, Sorghum, Rice, Sugarcane, Oats, Rye, and Barley, R. J. Lavigne ..... 11	History of Entomology ..... 71
The North American Hymenoptera Catalog: A Pioneering Effort in Computerized Publication, K. V. Krombein, J. F. Mello, and J. J. Crockett .. 24	Pest Control in Buildings ..... 73
Deciphering The Communicative Rosetta Stone, M. S. Blum ..... 30	The Oribatid Genera of the World ..... 73
First National Entomological Congress, South Africa Minutes—1973 Meeting, Entomological Society of America ..... 36	International Commission on Zoological Nomenclature ..... 74
Opening Session ..... 36	Golden Jubilee of the Entomological Society of Queensland, B. J. Stone ..... 75
Preliminary Business Meeting ..... 36	VII Annual Meeting, Invertebrate Pathology Society ..... 75
Final Business Meeting ..... 38	Pest Management Workshop ..... 75
Governing Board 1974 ..... 42	Master of Arts in Museum Science ..... 75
Officers, Entomological Society of America ..... 43	ARPE Hires New Manager ..... 76
Branch Officers ..... 43	ESA Publication on the Preparation of Chemicals for Evaluation ..... 76
Editorial Boards ..... 43	Perspectives in Aphid Biology, 1973 Edition, Available from New Zealand Entomological Society .. 76
Section Officers ..... 43	Communique of the Soviet-American Conference on Integrated Pest Management ..... 76
Sub-Section Officers ..... 44	Nominations to Honorary Membership, ESA ..... 77
Standing Committees ..... 44	Kit for Medical Entomology ..... 77
Report of the Auditors for 1973 ..... 45	Proposed Educational Program at Minneapolis Meeting ..... 78
Reports of Representatives to Scientific Bodies for 1973 ..... 48	First International Congress of Ecology Meeting ... 78
Acarology Summer Program—1974 ..... 48	Odds and Ends ..... 78
Reports of Special Committees for 1973 ..... 50	Paper for Presentation, Tear Sheet, Due July 1 .... 79
	17th National Insect Photographic Salon, Tear Sheet 81
	ESA Service Volunteers, Tear Sheet ..... 83
 Number 2	 Issued June 17, 1974
Future Meetings ..... Front Cover	Challenge to Entomologists, J. B. Kring ..... 107
XV International Congress ..... Front Cover	Symposium Proceedings (IOBC) ..... 108
Where To Find It ..... Front Cover	Correction ..... 108
A Small Step Forward—Message from the President, P. L. Adkisson ..... 85	Rocky Mountain Conference of Entomologists ..... 108
Editor's Comments ..... 87	Lepidopterists' Society Meeting ..... 108
Lady Glanville's Legacy, R. L. Doutt ..... 89	John Henry Comstock Centennial Celebration ..... 108
Evaluation of ESA—BYU Introductory Entomology Instructional Kit, G. L. Jubb, Jr. .... 92	Graduate Study—The Time of Your Life, E. H. Smith ..... 109
ESA Sponsors Symposium ..... 92	Workshop on Pest and Disease Appraisal and Control by Management Systems ..... 112
A Bibliography of North American Cherry Fruit Flies (Diptera: Tephritidae), M. T. AliNiazee and R. D. Brown ..... 93	Program Highlights—Minneapolis Meeting ..... 114
Guidelines for Use of Insecticide Order Form ..... 101	Publication Policies and Instructions for Contributors, ESA ..... 115
Scope of Society Sections ..... 102	Members in the News ..... 118
Federal Environmental Pesticide Control Act of 1972—What Does it Mean to the Chemical Industry? R. C. Hunter ..... 103	Leonard P. Quattrochi Memorial Fund ..... 118
	Membership List, ESA ..... 119
	Proceedings of the 48th Annual Meeting, Southeastern Branch, ESA ..... 199







Entomological Society of Pennsylvania 1973 Minutes	200
Proceedings of the 29th Annual Meeting, North Central Branch, ESA	201
Proceedings of the 45th Annual Meeting, Eastern Branch, ESA	202
Deceased Members	204
Positions Wanted	205
Positions Available	205
Books Received	207
Book Reviews	
Man Against Tsetse. Struggle for Africa	208
Insects in Relation to Plant Disease	208

### Number 3

Future Meetings	Front Cover
Where to Find It	Front Cover
Deceased Members	Front Cover
The Role of Entomology in Science Education, <i>Pedro Barbosa</i>	217
FAO/IUFRO Second Symposium on Forest Diseases and Insects	220
First Experiment Station in America	220
Distinguished Research Award	220
Pest Management in Citrus Orchards, <i>L. R. Jeppson</i>	221
Benefits of Forest Insect Control, <i>W. A. Leuschner and C. M. Newton</i>	223
Fly Control in Support of the Exotic Newcastle Disease Eradication Program in Southern California, <i>R. A. Bram, S. W. Wilson, and J. B. Sardesai</i>	228
VIII International Plant Protection Congress	230
Story Chemical Corporation	230
The Current Status of Morphology in Northeastern North America, <i>R. H. Storch</i>	231
Lost Members	233
Editor's Comments	235
Special Events for Members and Guests, Minneapolis Meeting	236
Report of the Advisory Committee for Systematics	237
Resources in Entomology	237
<b>Program Highlights, Minneapolis Meeting</b>	243
Proposed Constitutional Amendments	248
Publication of Scientific Papers in the Journals of the Entomological Society of America—An 11 Year Review, <i>J. S. Packer and W. P. Murdoch</i>	249
International Commission on Zoological Nomenclature	253
Centennial Celebration of Entomology at Cornell University	254

An Annotated Bibliography of <i>Musca domestica</i> Linnaeus	209
Insect Juvenile Hormone Chemistry and Action	209
Readings in Entomology	210
Perspectives in Aphid Biology	210
Bionomics and Embryology of the Inland Floodwater Mosquito <i>Aedes vexans</i>	211
Agromyzidae (Diptera) of Economic Importance	212
Proposed Additions to the List of Common Names of Insects, 1970	212
Application for Active Membership, ESA	213
Application for Student Membership, ESA	215

### Issued September 16, 1974

Positions Wanted	257
Positions Available	257
Order Form for ESA Publications: Crimean Hemorrhagic Fever, and Commercial and Experimental Organic Insecticides	259
CDC Course: Control of Mosquito-Borne Diseases	260
Affiliates of the ESA	261
Members in the News	262
Special Committees, 1974, ESA	263
Letters to the Editor	264
Odds and Ends	264
International Science and Engineering Fair Entomology Award Winners	265
Common Names of Insects, Changes and Corrections	266
Minutes of the 50th Annual Meeting, Kansas Entomological Society	266
Insects: Studies in Population Management, now available	267
Scientists and Engineers in Economic Development Program	267
Carpenterworm Bibliography Available	267
Unauthorized Shipment of Living Insects	269
Election Results	269
Book Reviews	
Flies and Disease-Biology and Disease Transmission	270
Annual Review of Entomology	271
The Physiology of Insecta, Volumes I, III, and IV	272-5
The Control of Lice and Louse-Borne Diseases	275
Pyrethrum: The Natural Insecticide	275
15th North Central Branch Insect Photographic Salon	276

## REPRINT PRICE SCHEDULE

There is no typesetting charge, but blank pages necessary to complete the printer's forms count as printed pages.

(Effective on January 1, 1975)

Transportation Charges Added Outside North America and U. S. Possessions<sup>1</sup>

No. of copies	Prices for Pages Indicated <sup>2</sup>									Covers <sup>3</sup>
	1-2	3-4	5-8	9-12	13-16	17-20	21-24	25-28	29-32	
50 <sup>4</sup>	\$28.00	\$31.00	\$36.00	\$42.50	\$50.50	\$60.60	\$ 72.00	\$ 82.00	\$ 92.50	\$29.00
100	37.00	40.50	49.50	63.00	75.00	67.00	101.00	113.00	127.00	35.90
Additional 100's	9.00	11.00	16.00	20.00	23.50	29.00	35.00	41.55	49.50	14.50

<sup>1</sup> Transportation charges in North America and U. S. Possessions will be paid by the Society except when the charge exceeds \$1.00.

<sup>2</sup> Members are to receive a discount of 50% when payment is made from personal funds. No discount on the price of covers.

<sup>3</sup> Covers are extra.

<sup>4</sup> No order for less than 50 copies can be accepted. Orders embodying any special features which prevent handling in a standardized fashion will be subject to special quotation.

# ENTOMOLOGICAL SOCIETY OF AMERICA

4603 Calvert Road

College Park, Maryland 20740

## RETURN POSTAGE GUARANTEED

### TABLE OF CONTENTS

Deceased Members .....	Front Cover	
Where to Find It .....	Front Cover	
Future Meetings .....	Front Cover	
Opportunities for Professional Entomologists in Private Practice—Message from the President, <i>P. L. Adkisson</i> .....	277	
Publication Announcement .....	278	
AAAS Annual Meeting .....	278	
Herbicide Handbook Announcement .....	278	
Notice of Meeting .....	278	
Blacklight Traps as Control Agents: An Appraisal, <i>W. W. Cantelo</i> .....	279	
The Distribution by States of United States Insect Records, <i>G. C. Steyskal</i> .....	283	
Host Index to the Second Supplement of the Synoptic Catalog for the Hymenoptera of America North of Mexico, <i>T. R. Torgersen</i> .....	285	
Editor's Comments, <i>W. P. Murdoch</i> .....	293	
Hybridization of Honey Bees in South America, <i>M. D. Levin</i> .....	294	
The U.S. Navy's Program for Training Pest Control Personnel, <i>P. G. Koehler, C. L. Hammond, H. T. Bolton, and W. B. Hull</i> .....	297	
Searching Entomological Literature, <i>S. C. Trauger, R. D. Shenefelt, and R. H. Foote</i> .....	303	
Eunice Rockwell Oberly Memorial Award .....	315	
Critical Issues Face Entomologists, <i>C. H. Hoffmann</i> .....	316	
U.S.-Australia Joint Research Program .....	318	
Pest Management: A Student Commentary on Contemporary Problems, <i>G. S. Benham, Jr.</i> .....	319	
Research Opportunities for 1975 .....	326	
How International is ESA? <i>M. D. Leonard</i> ....	327	
Workshop on Pest and Disease Appraisal and Control by Management Systems .....	327	
XV Congress Progress, <i>E. C. Bay</i> .....	328	
Brazil Entomology Meeting .....	328	
Proceedings of the 58th Annual Meeting, Pacific Branch, ESA .....	329	
Positions Available .....	330	
Positions Wanted .....	330	
Members in the News .....	331	
First Coccidology Training Session .....	332	
Publications Received .....	333	
Medical Entomology and Mosquito Identification at the U.S. National Museum .....	334	
Book Reviews		
A Field Guide to the Insects of Britain and Northern Europe .....	335	
Pests of Stored Products .....	335	
Wasps: An Account of the Biology and Natural History of Solitary and Social Wasps .....	335	
Developmental Neurobiology of Arthropods .....	336	
Insects—Instructions for Collectors No. 4a, 5th ed. 1974 .....	337	
Insects and Disease .....	337	
Biological Control .....	338	
Biological Systematics .....	338	
The Gardeners Bug Book, 4th ed. ....	339	
Insect and Host Plant/Insect/Plant Relationships. ....	340	
Atlas of Insects .....	341	
The Physiology of Insecta .....	341	
Table of Contents, Volume 20 .....	344	

Issued December 16, 1974

